

Serial No.: 10/005,968

Attorney Docket No.: 2001P04224US01 US**IN THE CLAIMS:**

This listing of the claims will replace all prior versions and listings of the claims in the application:

1. (Original) A system, comprising:  
a transmitter including a power amplifier; and  
a power controller adapted to receive a coupler value of a power level at said output of said power amplifier if said power level is above a predetermined threshold and perform a low power extrapolation if said power level is below a predetermined threshold.
  
2. (Currently Amended) A system in accordance with claim 1, an output of said power controller adapted to control a setting of said variable gain power amplifier.
  
3. (Original) A method for use in a telecommunications transmitter, comprising:  
initializing nominal transmit power, coupler, and transmit DAC values; ;  
specifying a set power level;  
setting a transmit DAC with said initial transmit DAC value;  
determining an output of a power coupler;  
comparing said output to a nominal value;  
adjusting said transmit DAC such that said output matches said nominal value;  
extrapolating past transmit DAC values to set said transmit DAC said set power level is less than a predetermined threshold.
  
4. (Original) A method in accordance with claim 3, wherein said threshold defines a linear region of a coupler vs. transmit power response.

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5. (Original) A radio transmitter system, comprising:  
a transmitter having a variable gain amplifier; and  
means for adjusting a gain level of said variable gain amplifier based on a coupler output value if said power measurement is greater than a predetermined threshold.
6. (Original) A radio transmitter system in accordance with claim 5, said adjusting means further comprising means for extrapolating a low power level.
7. (Original) A radio transmitter system in accordance with claim 6, said adjusting means further including a slope calculation unit adapted to provide a power curve value to said extrapolating means if a power measurement is less than said predetermined threshold.
8. (Original) A system, comprising:  
a transmitter including a power amplifier; and  
a power controller adapted to adjust a power level based on a low power extrapolation of a power measurement if said power level is below a predetermined threshold.
9. (Currently Amended) A system in accordance with claim 8, said power controller further adapted to adjust a set power value based on an output of said a power adjustment unit.
10. (Currently Amended) A system in accordance with claim 9, wherein said low power extrapolation is derived from a past values on a power curve.
11. (Original) A system comprising:

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a transmitter including a power amplifier;  
a level detector adapted to determine a power level with respect to a threshold;  
a power controller adapted to adjust a power level based on a low power extrapolation of a coupler output if said power level is below said threshold.

12. (Original) A system in accordance with claim 11, wherein said power controller is adapted to adjust a gain level of a power amplifier.

13. (Original) A system in accordance with claim 12, wherein determining said extrapolation comprises determining a value of an output power curve using past measured values of said output power.

14. (Original) A telecommunications device, comprising:  
a transmitter including a power amplifier controlled via a transmit DAC;  
a level detector adapted to determine a power level with respect to a threshold;  
a power controller adapted to adjust a value of said transmit DAC based on a low power extrapolation of a coupler output if said power level is below said threshold; and  
wherein said power controller is adapted to adjust a value of said transmit DAC based on said output of said power coupler if said set power level is above said threshold.